

DUDATE





Fraunhofer TESTED® DEVICE RK Rose+Krieger GmbH RK DuoLine Z80 Clean Report No. RK 1404-704

Statement of Qualification

Particle Emission

Statement of Qualification

Customer:

RK Rose+Krieger GmbH Potsdamer Strasse 9 32375 Minden Germany

Component tested

Category:	Automation Components
Subcategory:	Linear Units
Product name:	RK DuoLine Z80 Clean (article number: TD15A2F1A12A02468; manufacturing date: CW 12/2014; stroke: 2000mm)

Random sampling of particle emissions (airborne) at representative sites

Standards/Guidelines:	VDI 2083-9.1; ISO 14644-1 The norms stated refer to the relevant editions applicable at the time of the tests.
Test devices:	Optical particle counter: LasAir II 110 with measuring ranges $\ge 0.1 \mu\text{m}$, $\ge 0.2 \mu\text{m}$, $\ge 0.3 \mu\text{m}$, $\ge 0.5 \mu\text{m}$, $\ge 1.0 \mu\text{m}$ und $\ge 5.0 \mu\text{m}$
Test environment parameters:	 Cleanroom Air Cleanliness Class (according to ISO 14644-1):
Test procedure parameters:	 Extraction:

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IPA

Test result/Classification: (in acc. with ISO 14644-1)

Para

The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

For further information about the test environment and parameters, please refer to the Fraunhofer IPA test report.

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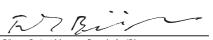


When operated without an extraction system, the linear unit RK DuoLine Z80 Clean (TD15A2F1A12A02468) is suitable for use in cleanrooms fulfilling the following air cleanliness specifications according to ISO 14644-1:

meter	Air Cleanliness Class
0.5 m / s; a = 5.0 m / s²	ISO 5
1.0 m / s; a = 5.0 m / s²	ISO 6
2.0 m / s; a = 5.0 m / s²	ISO 7
rall result	ISO 7

Stuttgart, March 4, 2015

Place, date of first document issued



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This document only applies to the named product in an unchanged state and is valid from the date of issue for a period of 5 years. The document can be verified under www.tested-device.com